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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/807,077	03/23/2004	Se-ho Lee	5649-1270 4066		
7590 03/31/2005			EXAMINER		
Timothy J. O'		· PHUNG, ANH K			
	bley & Sajovec	ADTIBUT	DADED MUNDED		
Post Office Box		ART UNIT	PAPER NUMBER		
Raleigh, NC	27627	2824			
			DATE MAILED: 03/31/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

					H:A			
		Application	on No.	Applicant(s)	11.3.7			
Office Action Summary		10/807,07	7	LEE, SE-HO				
		Examiner		Art Unit				
		ANH PHU	NG	2824				
Period f	The MAILING DATE of this communi or Reply	ication appears on the	cover sheet with the	correspondence addi	ress			
THE - External after of the control	MORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNION of time may be available under the provisions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this comme period for reply specified above is less than thirty (30 period for reply is specified above, the maximum stature to reply within the set or extended period for reply reply received by the Office later than three months at need patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no eve unication. D) days, a reply within the statu tutory period will apply and wi will, by statute, cause the appl	ent, however, may a reply be ti utory minimum of thirty (30) da ill expire SIX (6) MONTHS fron lication to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this com ED (35 U.S.C. § 133).	nmunication.			
Status								
1)□	Responsive to communication(s) file	d on .						
2a)□	•	2b)⊠ This action is n	on-final.					
3)								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	tion of Claims			,				
5) 6) 7)	Claim(s) <u>1-41</u> is/are pending in the a 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-41</u> are subject to restriction	re withdrawn from co						
Applicat	tion Papers			•				
9)[	The specification is objected to by the	e Examiner.						
10)[	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)[	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority	under 35 U.S.C. § 119							
12)□ a)	Acknowledgment is made of a claim of All b) Some * c) None of:  1. Certified copies of the priority of Copies of the priority of Copies of the certified copies of application from the Internation See the attached detailed Office actions	documents have bee documents have bee of the priority docume nal Bureau (PCT Rule	n received. n received in Applicat ents have been receiv e 17.2(a)).	tion No red in this National S	itage			
Attachmer	nt(s)				*			
1) Notic	ce of References Cited (PTO-892)		4) Interview Summary					
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (P rmation Disclosure Statement(s) (PTO-1449 or I er No(s)/Mail Date		Paper No(s)/Mail D 5) Notice of Informal C 6) Other:		152)			

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## **DETAILED ACTION**

#### Election/Restrictions

- 1. This application contains claims directed to the following patentably distinct species of the claimed invention:
  - I Claims 1-12 and 20-25 are described in Figure 5A.
  - II Claims 13-19 and 26-41 are described in Figure 5B.
- 2. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.
- 3. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.
- 4. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).
- 5. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the

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case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

## Claim Objections

6. Claims **14-19** and **29-33** are objected to because of the following informalities:

Claims **14-19**, line 1, the phrase "The memory" should be --The phase-change memory--.

Claims 29-33, line 1, the phrase "The phase-change memory cell" should be -The phase-change memory --.

Appropriate correction is required.

### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **ANH PHUNG** whose telephone number is **(571) 272-1883**. The examiner can normally be reached on Monday-Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD ELMS, can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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**AKP** 

ANH PHUNG PRIMARY EXAMINER